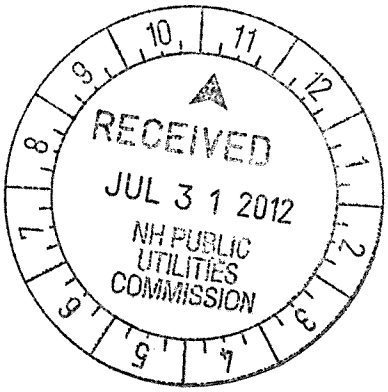
DE 12-244



Class II REC Eligibility Application

Exeter Waste Water Treatment Plant
50Kw Photovoltaic System

Revolution Energy LLC
208 Market St. Suite 30
Portsmouth, NH
03801

Phone: (603) 319-8152
Fax: (603) 590-8640

STATE OF NEW HAMPSHIRE

PUBLIC UTILITIES COMMISSION

SAMPLE APPLICATION FORM

FOR CUSTOMER-SITED RENEWABLE ENERGY SOURCE ELIGIBILITY

Pursuant to New Hampshire Admin. Code Puc 2500 Rules

Pursuant to Puc 202, the signed application shall be filed with the Executive Director and Secretary of the New Hampshire Public Utilities Commission (Commission). To ensure that your submitted application is complete, please read RSA 362-F and N.H. Code Admin. Rules Puc 2500 before filling out this application. It is the burden of the applicant to provide timely, accurate and complete information as part of the application process. Any failure by the applicant to provide information in a timely manner may result in the Commission dismissing this application without prejudice.

NOTE: When completing this application electronically, using the "tab" key after completing each answer will move the cursor to the next blank to be filled in. If a question is not applicatiable to your facility, then check the box next to N/A.

1. **ELIGIBILITY CLASS APPLIED FOR:** ☐ I ☒ II

2. Applicant's legal name: Revolution Energy LLC

3. Residential or Business Address: (1) 208 Market St. Suite 30

(2) Portsmouth, NH, 03801

(City) (State) (Zip Code)

Site Location if different than above. (3) 13 Newfields Rd

Exeter NH 03833

(City) (State) (Zip Code)

4. Telephone number: (603) 319-8152

5. Facsimile number: (603) 590-8640

6. Email address: Mike@rev-en.com

7. Installing Electrician's Name: Evan Jones Electric

8. Business Address: (1) 72 Patch Hill Rd.

(2) _____

(3) _____

Milford (City) NH (State) 03055 (Zip Code)

9. Telephone number: (603) 289-1589

10. Facsimile number: N/A

11. Email address: Wiringisnotahobby@gmail.com

12. Equipment vendor's Name: AltE Direct

13. Business Address: (1) A408, 43 Broad St.

(2) _____

(3) _____

Hudson (City) MA (State) 01749 (Zip Code)

14. Telephone number: (978) 562-5858

15. Facsimile number: 1(978) 562-5854

16. Email address: Ben.Farmer@altedirect.com

17. Independent Monitor's Name: Tom Kelly

18. Business Address: (1) 2 Suncook Terrace #36

(2) _____

(3) _____

Merrimack (City) NH (State) 03054 (Zip Code)

19. Telephone number: (603) 546-5816

20. Facsimile number: N/A

21. Email address: tom@naturalcapital-llc.com

22. The ISO-New England asset identification number, if applicable: _____ or N/A: [X]

23. The GIS facility code, if applicable: 34314 or N/A: [ ]

24. If Class I, please identify type of source below:
[ ] solar hot water heating, [ ] wind generation and/or [ ] other generation _____
If other type of generation, provide a description. (Attach as "Exhibit A")

25. A list and description of the equipment used at the facility, including the meter and, if applicable, the inverter (Attach as "Exhibit B")

26. A copy of the interconnection agreement pursuant to Puc 307.06, if applicable, between the applicant and the distribution utility. (Attach as "Exhibit C" or N/A [ ])

27. A signed attestation by the owner/applicant that the project is installed and operating in conformance with any applicable building codes. (Attach as "Exhibit D" or N/A [ ])

28. For an installation with electric output, documentation of the applicable distribution utility's approval of the installation. (Attach as "Exhibit E" or N/A [ ])

29. This application and all future correspondence should be sent to:

Ms. Debra A. Howland
Executive Director and Secretary
State of New Hampshire
Public Utilities Commission
21 S. Fruit St, Suite 10
Concord, NH 03301-2429

30. Preparer's Information:

Name: Bob Lambert

Title: Project Associate

Address: (1) 151 High St. #4

(2) _____

(3) _____

Portsmouth (City) NH (State) 03801 (Zip Code)

Preparer's Signature: _____ Date: _____

I attest that this project has been installed and is operating in conformance with any applicable building and electrical codes:

Owner's Signature: _____ Date: 7-12-12

Notary's Signature: _____ Date: 7/12/2012

STEVEN S. SCOTT
Notary Public - New Hampshire
My Commission Expires February 18, 2014

Exhibit B

KYOCERA

KD 200-60 P Series

KD230GX-LPB KD235GX-LPB KD240GX-LPB KD245GX-LPB

CUTTING EDGE TECHNOLOGY

As a pioneer with over 35 years in the solar energy industry, Kyocera demonstrates leadership in the development of solar energy products. Kyocera's *Kaizen* Philosophy, commitment to continuous improvement, is shown by repeatedly achieving world record cell efficiencies.

QUALITY BUILT IN

- UV stabilized, aesthetically pleasing black anodized frame
- Supported by major mounting structure manufacturers
- Easily accessible grounding points on all four corners for fast installation
- Proven junction box technology with 12 AWG PV wire to work with transformerless inverters
- Quality locking MC4 plug-in connectors to provide safe and quick connections

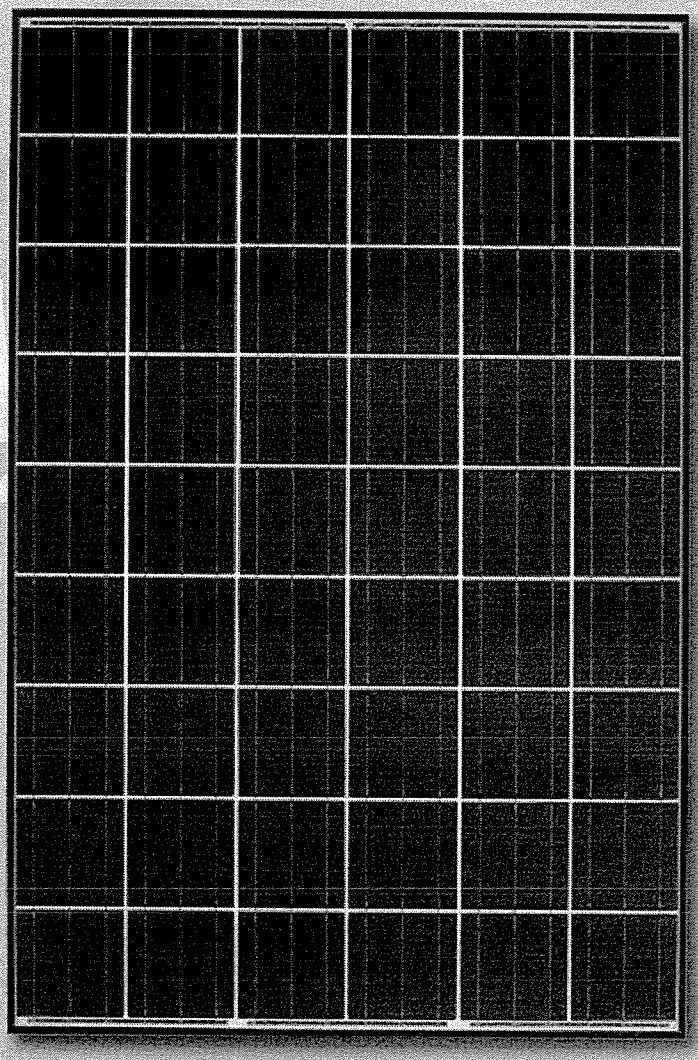
RELIABLE

- Proven superior field performance
- Tight power tolerance
- Only module to pass rigorous long-term testing performed by TÜV Rheinland

TÜV

WARRANTY

- Kyocera standard 20 year power output warranty and 5 year workmanship warranty applies in USA
- Extended warranties available per project requirements
- Kyocera standard 20 year power output warranty and 2 year workmanship warranty applies outside of USA
- Refer to Kyocera warranty policy for details



UL Listing
QIGU.E173074

Registered to ISO9001-2000

NEC 2008 Compliant, UL 1703, ISO 9001, and ISO 14001
UL1703 Certified and Registered, UL Fire Safety Class C, CEC, FSEC
Certified IEC61215 Ed 2 IEC61730 by JET

QUALIFIED FOR "BUY AMERICAN"
Manufactured in San Diego, California

ELECTRICAL SPECIFICATIONS

Standard Test Conditions (STC) *STC = 1000 W/M² irradiance, 25°C module temperature, AM 1.5 spectrum*	KD230GX-LPB	KD235GX-LPB	KD240GX-LPB	KD245GX-LPB	
P_{mp} [2]	230	235	240	245	W
V_{mp}	29.8	29.8	29.8	29.8	V
I_{mp}	7.72	7.89	8.06	8.23	A
V_{oc}	36.9	36.9	36.9	36.9	V
I_{sc}	8.36	8.55	8.59	8.91	A
$P_{tolerance}$	+5/-3	+5/-3	+5/-3	+5/-3	%
Nominal Operating Cell Temperature Conditions (NOCT) *NOCT = 800 W/M² irradiance, 20°C ambient temperature, AM 1.5 spectrum*					
T_{NOCT}	45	45	45	45	°C
P_{max}	165	169	172	176	W
V_{mp}	26.8	26.8	26.7	26.8	V
I_{mp}	6.18	6.31	6.45	6.58	A
V_{oc}	33.7	33.7	33.7	33.7	V
I_{sc}	6.77	6.92	6.95	7.21	A
PTC	208.0	212.6	217.3	219.1	W
Temperature Coefficients					
P_{max}	-1.04	-1.07	-1.10	-1.12	W/°C
V_{mp}	-0.153	-0.154	-0.154	-0.155	V/°C
I_{mp}	0.000502	0.000513	0.000515	0.000535	A/°C
V_{oc}	-0.133	-0.133	-0.133	-0.133	V/°C
I_{sc}	0.00502	0.00513	0.00515	0.00535	A/°C
Operating Temp	-40 to +90	-40 to +90	-40 to +90	-40 to +90	°C

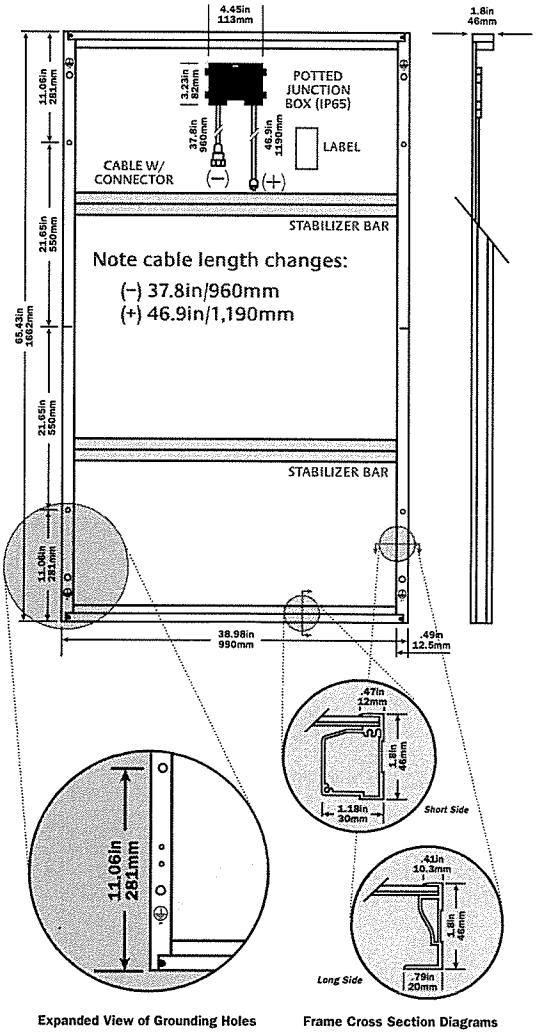
System Design	
Series Fuse Rating	15 A
Maximum DC System Voltage (UL)	600 V
Hail Stone Impact	1in (25mm) @ 51mph (23m/s)

MODULE CHARACTERISTICS

Dimensions: *length/width/height*	65.43in/38.98in/1.8in (1662mm/990mm/46mm)
Weight:	46.3lbs (21.0kg)

PACKAGING SPECIFICATIONS

Modules per pallet:	20
Pallets per 53' container:	36
Pallet box dimensions: *length/width/height*	66.54in/39.76in/47.24in (1690mm/1010mm/1200mm)
Pallet box weight:	1102.5lbs (500kg)



Expanded View of Grounding Holes

Frame Cross Section Diagrams

NEC 2008 COMPLIANT
UL 1703 LISTED
CERTIFIED IEC61215 ED2 IEC61730 BY JET

Registered to ISO9001-2000

WARNING: Read the instruction manual in its entirety before handling, installing, and operating Kyocera Solar modules.

Legend

MOUNTING HOLES .35in (9mm) | DRAINAGE HOLES | GROUND SYMBOL .35in (9mm)

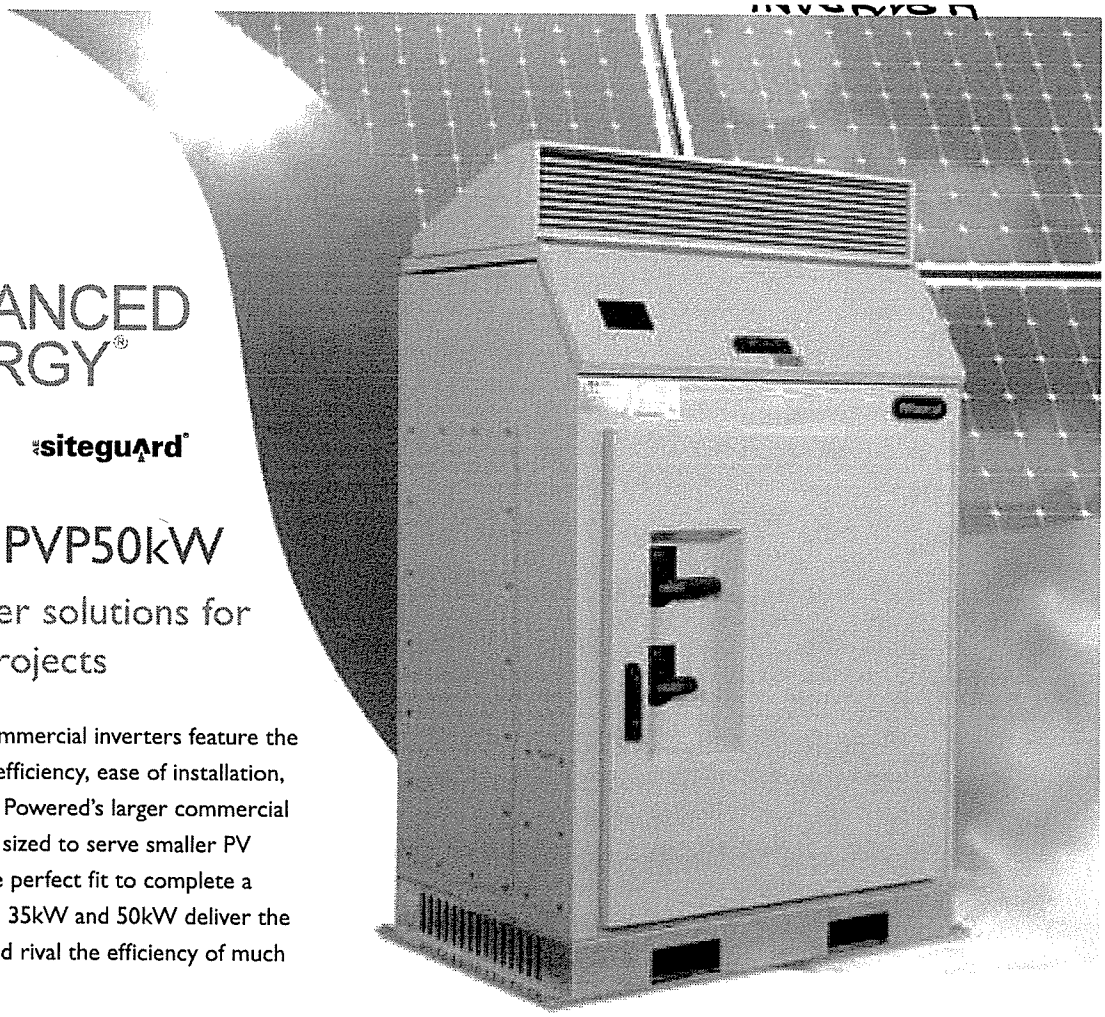
KYOCERA reserves the right to modify these specifications without notice.

033111

OUR VALUED PARTNER

ADVANCED ENERGY®

PVPowered™ solaron® siteguard®



PVP35kW and PVP50kW

Three-Phase inverter solutions for small commercial projects

The all new 35kW and 50kW commercial inverters feature the same industry leading reliability, efficiency, ease of installation, and lifetime maintainability of PV Powered's larger commercial inverters. These two models are sized to serve smaller PV system designs, or to provide the perfect fit to complete a larger PV system. In addition, the 35kW and 50kW deliver the highest efficiency in their class and rival the efficiency of much larger inverters.

High reliability is enabled by a ground-up design for 20+ year operating life that features busbar power connections, card cage circuit board design, and the widest temperature rating of any inverter in its class. The highly integrated system saves installers time and money by including load-rated AC & DC service disconnects, neutral-free installation, oversized busbar landings and generous cable bending area. The 35kW and 50kW have a 295VDC minimum MPPT voltage that enables the stringing flexibility that is critical for smaller rooftop projects.

Advanced Energy backs all its commercial inverters with an industry-leading 10-year nationwide warranty and an optional 20-year warranty; plus the most responsive service and support team in the business.

Superior Reliability

- Designed for 20+ year operating life
- Smart Air Management™
- Low parts count reduces potential failure points
- Card cage circuit board system minimizes electronic interconnections

Exceptional Installability

- Bottom and side cable entry with generous bending area and oversized busbar landings
- Customizable subcombiner fusing options
- Full power output at 295 VDC enables more PV array design options
- Exterior mounting flanges for fast and easy anchoring with no pre-drilling

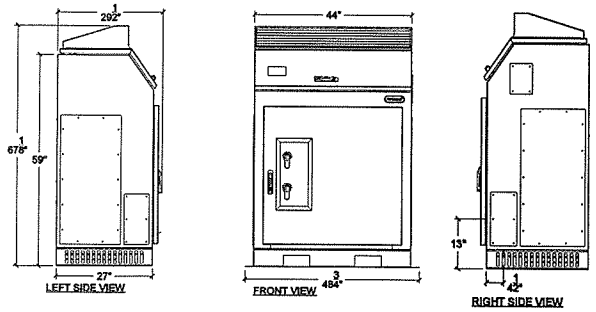
Easy to Maintain

- All maintenance and service via front access
- Fast change circuit board system shortens service time
- Load-rated AC and DC service disconnects
- Dedicated monitoring section separate from AC and DC modules

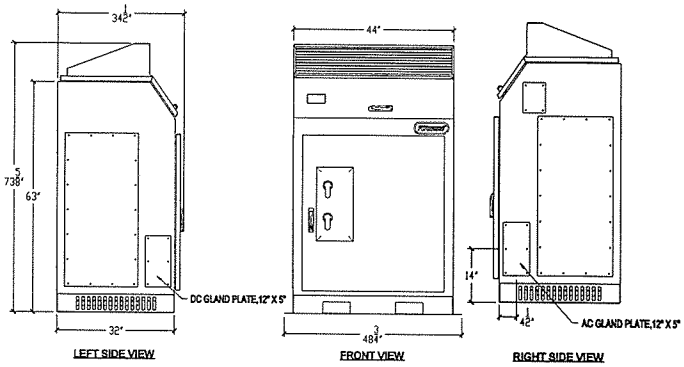
ONTARIO FEED IN TARIFF
DOMESTIC CONTENT COMPLIANT

Dimensions

PVP 35kW



PVP 50kW



Electrical Specifications

Model	PVP 35kW	PVP 50kW
Continuous Output Power (kW)	35	50
Peak Efficiency (%)	97.0	97.2%
Weighted CEC Efficiency (%)	208: 95.5%	208: 96.0%
	480: 96.0%	480: 96.0%
	600: 95.5%	600: 96.0%
Maximum DC Input Voltage (VOC)	600	600
DC Peak Power Tracking Range (VDC)	295 - 595	295 - 595
DC Imp Nominal Current (A)	125	178
AC Nominal Voltage (V)	208Y, 480Y, 600Y	208Y, 480Y, 600Y
AC Operating Range (V)	208: 183 - 228	208: 183 - 228
	480: 422 - 528	480: 422 - 528
	600: 528-660	600: 528-660
AC Frequency Range (Hz)	59.3 - 60.5	59.3 - 60.5
AC Maximum Continuous Current (A)	208: 100	208: 141
	480: 43	480: 61
	600: 35	600: 49
Standby Losses (W)	33	33
Harmonic Distortion (%THD)	<3	<3
Power Factor	>.99	>.99

Mechanical Specifications

Model	PVP 35kW	PVP 50kW
Enclosure	NEMA 4	NEMA 4
Construction	Powder Coated Steel	Powder Coated Steel Optional Stainless Steel
Mounting	Pad Mount	Pad Mount
Weight (lbs)	1200	1500
Cooling	Forced Convection	Forced Convection
Operating Temperature Range (°C)	-30 to 50	-30 to 50
Standby/Storage Ambient Temperature Range (°C)	-40 to 60	-40 to 60
Isolation Transformer	Yes	Yes
Declared dual number noise emission values in accordance with ISO 4871 (dBA)3*	Full load at 6 ft=54 dBA	Full load at 6 ft=54 dBA
	Full load at 50ft=44 dBA	Full load at 50ft=44 dBA

* dBA=decibles measured according to A-weighted time average sound pressure level. The uncertainty value (K) = 3 dBA.

Options

- Subcombiner fusing
- Integrated data monitoring solutions
- Integrated revenue grade meter
- Stainless Steel (PVP50kW only)
- Positive ground
- Preventative maitenance program
- 20-year extended warranty

Agency Approvals

UL 1741, IEEE519, IEEE929, IEEE1547, CSA 107.1-1, FCC Class A

Specifications are subject to change without notice.

ADVANCED ENERGY

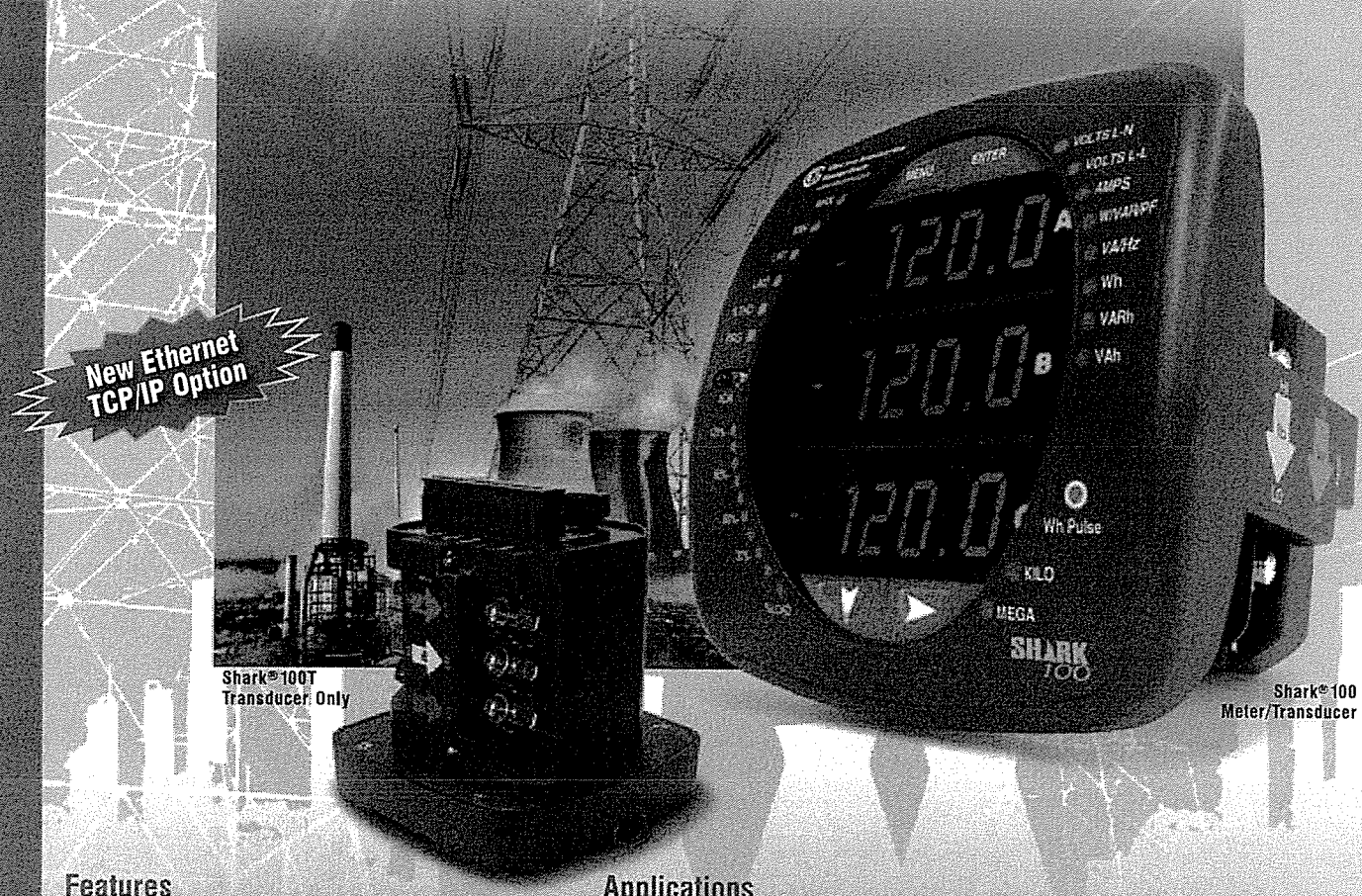
Advanced Energy Industries, Inc. · 20720 Brinson Blvd. PO Box 7348 · Bend, 97708 OR U.S.A.
T: 877.312.3832 · sales.support@aei.com · *www.advanced-energy.com/renewables*
Please see www.advanced-energy.com for worldwide contact information.

55-600100-67DO 0M 6/11

SHARK® 100

MULTIFUNCTION POWER AND ENERGY METER

Revenue Grade



Features

- 0.2% Class Energy and Demand Metering
- Measurements including Voltage, Current, Power, Frequency, Energy, etc.
- Optional KYZ Pulse and Standard IrDA Port
- Power Quality Measurements (%THD and Alarm Limits)
- V-Switch™ Technology - Field Upgrade without Removing Installed Meter
- Large Bright Red LED Display
- % of Load Bar for Analog Meter Perception
- Optional RS485 Modbus and DNP 3.0 Protocols
- Optional 100BaseT Ethernet
- Fits Both ANSI and DIN Cut-Outs
- Available in a Transducer-Only Version

Applications

- Utility Metering
- Commercial Metering
- Substations
- Industrial Metering
- Power Generation
- Campus Metering
- Submetering
- Analog Meter Replacement

Introduction

Electro Industries introduces one of the industry's highest performance revenue grade panel meters. Based on an all new platform, this low cost meter significantly outperforms other devices many times its price. This unit is perfect for new metering applications and as a simple replacement of existing analog meters. The Shark® meter excels in metering energy accurately, exceeding ANSI C12.20 (0.2%) and IEC 62053-22 (0.2%) energy measurement standards. The unit utilizes high speed DSP technology with high resolution A/D conversion to provide revenue certifiable accuracy for Utility Billing, Substation Metering, Submetering and Critical Metering applications.

High Performance and Economical Pricing for High Volume Deployment

Electro Industries/GaugeTech

The Leader in Power Monitoring and Smart Grid Solutions

www.electroind.com

Superior Accuracy and Virtual Upgrade Switches

V-Switch™ Technology

The Shark® 100 meter is equipped with EIG's exclusive V-Switch™ technology. This technology allows users to upgrade and add features as needed by using communication commands, even after the meter is installed.

Available V-Switches:

- V-Switch 1 – Volts and Amps Meter – Default
- V-Switch 2 – Volts, Amps, kW, kVAR, PF, kVA, Freq.
- V-Switch 3 – Volts, Amps, kW, kVAR, PF, kVA, Freq, kWh, kVAh, kVARh and DNP 3.0
- V-Switch 4 – Volts, Amps, kW, kVAR, PF, kVA, Freq, kWh, kVAh, kVARh, %THD Monitoring, Limit Exceeded Alarms and DNP 3.0

Measured Parameters	Accuracy % of Reading	Display Range
Voltage L-N	0.1%	0-9999 Scalable V or kV
Voltage L-L	0.1%	0-9999 V or kV Scalable
Current	0.1%	0-9999 Amps or kAmps
+/- Watts	0.2%	0-9999 Watts, kWatts, MWatts
+/-Wh	0.2%	5 to 8 Digits Programmable
+/-VARs	0.2%	0-9999 VARs, kVARs, MVARs
+/-VARh	0.2%	5 to 8 Digits Programmable
VA	0.2%	0-9999 VA, kVA, MVA
VAh	0.2%	5 to 8 Digits Programmable
PF	0.2%	+/- 0.5 to 1.0
Frequency	0.01 Hz	45 to 65 Hz
%THD	5.0%	0 to 100%
% Load Bar	1-120%	10 Digit Resolution Scalable

Note: Typical results are more accurate. Applies to 3 Element WYE and 2 Element Delta Connections. Add 0.1% of Full Scale plus 1 digit to Accuracy specs for 2.5 Element connections.

Traceable Watt-Hour Test Pulse for Accuracy Verification

The Shark® 100 device is a traceable revenue meter. It contains a utility grade test pulse allowing power providers to verify and confirm that the meter is performing to its rated accuracy. This is an essential feature required of all billing grade meters.

Additional Features Include:

- Utility Block and Rolling Average Demand
- Adjustable Demand Profiles
- Max and Min Available on Most Other Parameters
- Voltage Provides Instantaneous Max and Min for Surge and Sag Limits

Measured Values	Real-Time	Avg	Max	Min
Voltage L-N	•		•	•
Voltage L-L	•		•	•
Current Per Phase	•	•	•	
Watts	•	•	•	•
VAr	•	•	•	•
VA	•	•	•	•
PF	•	•	•	•
+Watt-hr	•			
-Watt-hr	•			
Watt-hr net	•			
+VAR-hr	•			
-VAR-hr	•			
VAR-hr net	•			
VA-hr	•			
Frequency	•		•	•
%THD	•		•	•
Voltage Angles	•			
Current Angles	•			
% of Load Bar	•			

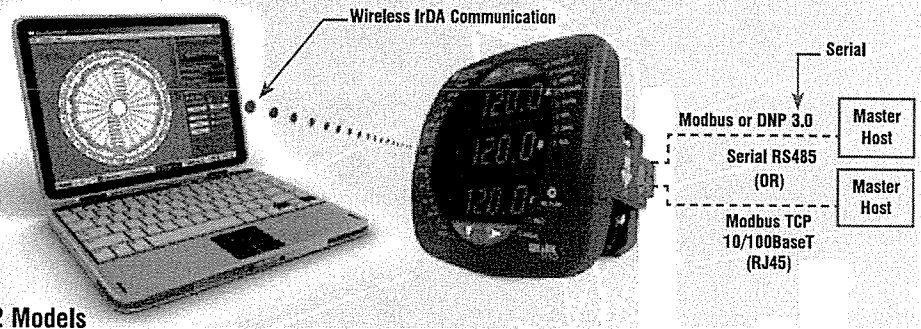
Advanced Communication Capability with IrDA Interface

The Shark® 100 meter provides two independent communication ports with advanced features.

Back Mounted Communication Port with KYZ Pulse

- RS485 (Option 485P) – This port allows RS485 communication using Modbus or DNP 3.0 Protocols. Baud rates are from 9600 to 57.6k.
- KYZ Pulse – In addition to the RS485, the meter also includes a KYZ pulse mapped to positive energy. This is a fixed energy pulse. Pulse values are:

Voltage Level	Class 10 Models	Class 2 Models
Below 150V	0.2505759630	0.0501151926
Above 150V	1.0023038521	0.2004607704



Optional 10/100BaseT Ethernet

Ethernet (Option INP10) – 10/100BaseT Ethernet with Modbus TCP protocol.

Front Mounted IrDA Communication

Uniquely, the Shark® meter also has an optical IrDA port, allowing the unit to be set up and programmed using a remote laptop PC without need for a communication cable. To configure the meter, just point at it with an IrDA-equipped PC.

Rugged and Safe Voltage and Current Inputs

The Shark® 100 meter is ruggedly designed for harsh electrical applications in both high voltage and low voltage power systems. This is especially important in Power Generation, Utility Substation and Critical User applications. The structural and electrical design of this meter was developed based on the recommendations and approval of many of our utility customers.

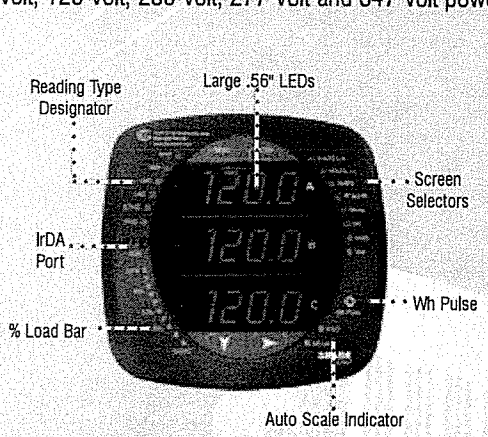
High Isolation Universal Voltage Inputs

Voltage inputs allow measurement of up to 416 Volts Line to Neutral and 721 Volts Line to Line. This insures proper meter safety when wiring directly to high voltage systems. One unit will perform to specification on 69 Volt, 120 Volt, 230 Volt, 277 Volt and 347 Volt power systems.

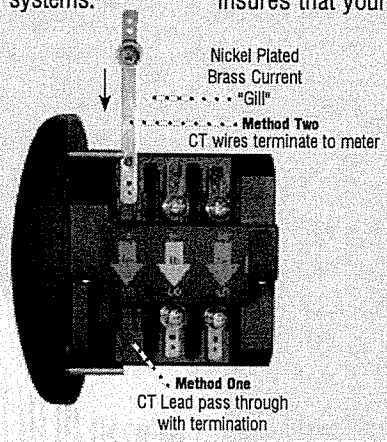
Short Circuit Safe Current Inputs

Current inputs use a unique dual input method:

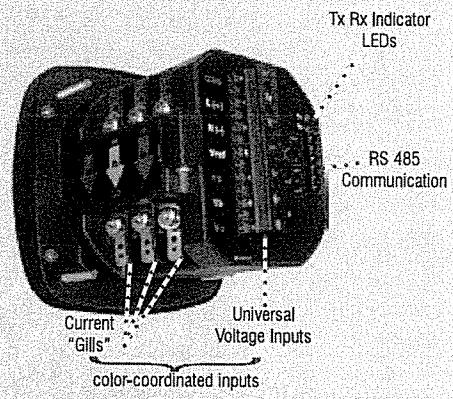
- **Method One** – CT Lead Pass Through. The CT Lead passes directly through the meter without any physical termination on the meter. This insures that the meter cannot be a point of failure on the CT circuit. This is preferable to utility users when sharing relay class CTs. No Burden is added to the secondary CT circuit.
- **Method Two** – Current "Gills." This unit additionally provides ultra-rugged termination pass-through bars, allowing the CT leads to be terminated on the meter. The Shark® meter's stud-based design insures that your CTs will not open in a fault condition.



FRONT VIEW

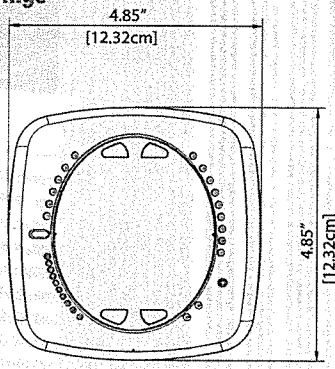


SIDE VIEW

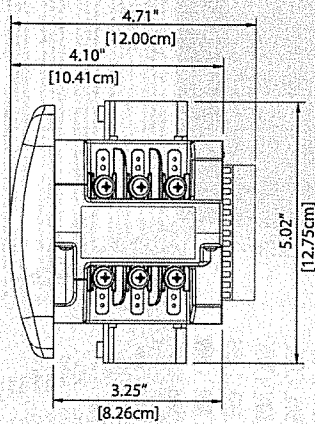


REAR VIEW

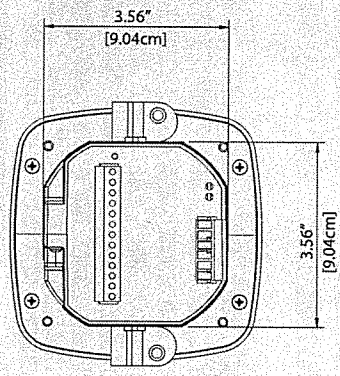
Dimensional Drawings



FRONT VIEW

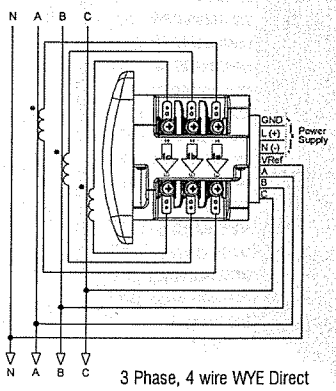


SIDE VIEW

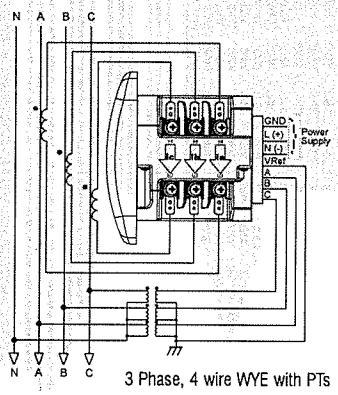


REAR VIEW

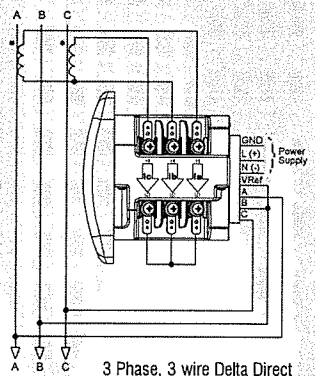
Wiring Diagrams



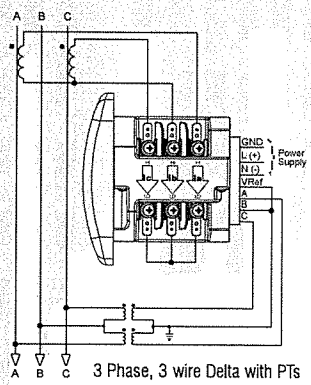
3 Phase, 4 wire WYE Direct



3 Phase, 4 wire WYE with PTs



3 Phase, 3 wire Delta Direct



3 Phase, 3 wire Delta with PTs

Easy to Use and Install

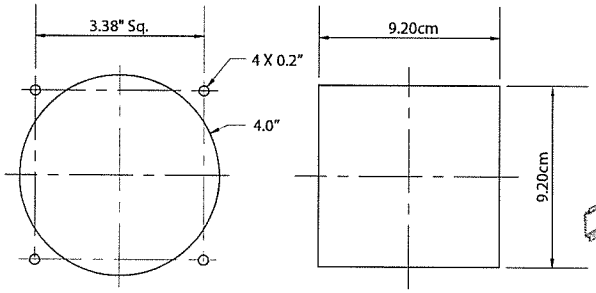
From user interface to mechanical construction, the Shark® 100 Meter was designed to be easy and intuitive, so an installer with minimal meter experience and training can easily install and use this product.

- Easy to use faceplate programming
- PC setup
- Phasor diagram showing wiring status
- Auto scroll feature
- Analog style % of Load Bar
- Shallow panel depth
- Color coordinated voltage and current inputs

Shark® 100 meter ANSI and DIN Mounting

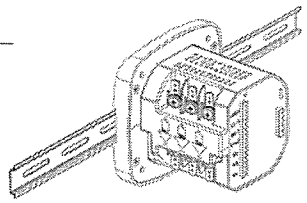
The unit mounts directly in an ANSI C39.1 (4" round form) or an IEC 92mm DIN square form. This is perfect for new installations and for existing panels. In new installations, simply use DIN or ANSI punches.

- Perfect for switchgear panel direct retrofits
- Mounts in only 4.25" panel depth
- Uses minimal panel space
- Uses standard CT or PT wiring



ANSI Mounting

DIN Mounting



Shark® 100T - DIN Rail Mounted Transducer

Specifications

Voltage Inputs

- 20-416 Volts Line To Neutral, 20-721 Volts Line to Line
- Universal Voltage Input
- Input Withstand Capability – Meets IEEE C37.90.1 (Surge Withstand Capability)
- Programmable Voltage Range to Any PT ratio
- Supports: 3 Element WYE, 2.5 Element WYE, 2 Element Delta, 4 Wire Delta Systems
- Burden: 0.36VA per phase Max at 600V, 0.014VA at 120 Volts
- Input wire gauge max (AWG 12 / 2.5mm^2)

Current Inputs

- Class 10: (0 to 10) A, 5 Amp Nominal
- Class 2: (0 to 2) A, 1A Nominal Secondary
- Fault Current Withstand (at 23°C): 100 Amps for 10 Seconds, 300 Amps for 3 Seconds, 500 Amps for 1 Second.
- Programmable Current to Any CT Ratio
- Burden 0.005VA per phase Max at 11Amps
- 5mA Pickup Current
- Pass through wire gauge dimension: 0.177" / 4.5mm
- Continuous current withstand: 20 Amps for screw terminated or pass through current connections

Isolation

All Inputs and Outputs are galvanically isolated to 2500 Volts AC.

Environmental Rating

Storage: (-20 to +70)° C

Operating: (-20 to +70)° C

Humidity: to 95% RH Non-Condensing

Faceplate Rating: NEMA12 (Water Resistant)

Mounting Gasket Included

Sensing Method

- RMS
- Sampling at 400+ Samples per Cycle on all channels measured readings simultaneously
- Harmonic %THD (% of Total Harmonic Distortion)

Update Rate

- Watts, VAR and VA-100msec
- All other parameters-1second

Power Supply

Option D2:

- (90 to 265) Volts AC and (100 to 370) Volts DC. Universal AC/DC Supply

Option D:

- 18-60VDC

Burden: 10VA max.

Communication Format

- 2 Com Ports (Back and Faceplate)
  - RS485 Port (Through Backplate)
  - IrDA (Through Faceplate)
- 10/100BaseT Ethernet Modbus TCP (INP10)
- Com Port Baud Rate: (9600 to 57,600)
- Com Port Address: 0-247
- 8 Bit, No parity
- Modbus RTU, ASCII or DNP 3.0 Protocols

KYZ Pulse

- Type Form A
- On Resistance: 23-35 Ohm
- Peak Voltage: 350 VDC
- Continuous Load Current: 120 mA
- Peak Load Current: 350mA (10ms)
- Off Stat Leakage Current @ 350VDC: 1 mA
- Opto-Isolation: 3750V (60Hz, 1min)

Dimensions and Shipping

- Weight: 2 lbs
- Basic Unit: H4.85 x W4.85 x L4.25
- Shark100 – mounts in 92mm DIN and ANSI C39.1 4" Round Cut-outs
- Shark100T-DIN rail mounted transducer
- Shipping Container Dimensions: 6" cube

Meter Accuracy

- See page 2

Compliance:

- IEC62053-22 (0.2% Accuracy)
- ANSI C12.20 (0.2% Accuracy)
- ANSI (IEEE) C37.90.1 Surge Withstand
- ANSI C62.41 (Burst)
- EN61000-6-2 - Immunity for Industrial Environments: 2005
- EN61000-6-4 - Emission Standards for Industrial Environments: 2007
- EN61326-1 - EMC Requirements: 2006

Ordering Information: To order, please fill out ordering guide:

Model	Frequency	Current Class	V-Switch Pack	Power Supply	COM	Mounting (Shark100 Only)
Option Numbers:	-	-	-	-	-	-
Example: Shark 100 -	60 -	10 -	V2 -	D2 -	X -	X
Shark100 (Meter/Transducer)	**50** 50 Hz System	**10** 5 Amp Secondary	**V1** Default V-Switch Volts / Amps	**D2** (90-265)VAC or (100-370)VDC	**X** No Com	**X** ANSI Mounting
Shark100T (Transducer Only)	**60** 60 Hz System	**2** 1 Amp Secondary	**V2** Above with Power & Freq	**D** 18-60V DC	**485P** RS485+Pulse (Standard in Shark® 100T Transducer)	**DIN** DIN Mounting Brackets
			V3 Above with Energy Counters		**INP10** 10/100BaseT + Pulse	
			V4 Above with %THD & Limits			

Additional Accessories

Communication Converters

9PINC – RS232 Cable

CAB6490 - USB to IrDA Adapter

Unicom 2500 - RS485 to RS232 Converter

Unicom 2500-F – RS485 to RS232 to Fiber Optic Converter

Modem Manager, Model # MM1 – RS485 to RS232 Converter for Modem Communication

Compliance Documents

Certificate of Calibration, Part # CCal – This provides Certificate of Calibration with NIST traceable Test Data.

Electro Industries/GaugeTech
1800 Shames Drive • Westbury, NY 11590
1-877-EIMETER (1-877-346-3837) **Tel:** 516-334-0870 • **Fax:** 516-338-4741 • **E-Mail:** sales@electroind.com • **www.electroind.com**

Exhibit C

Unitil

6/20/2012

Mr. Clay Mitchell
Revolution Energy, LLC
2 Washington St.
Suite 206
Dover, NH 03820

Re: Interconnection Exeter Waste Water Treatment Facility

Dear Clay:

This letter is to notify you that we have tested the customer owned generator and the inverter system at the Exeter waste water treatment facility located at 13 Newfields Rd. in Exeter.

We have replaced the existing meter with a "net meter" and you are now authorized to energize your PV system and interconnect to the Unitil electric system.

Please call me with any questions or concerns at 603-294-5123 or by email at noonis@unitil.com.

Sincerely,

Tim Noonis
Sr. Business Development Executive

Corporate Office

6 Liberty Lane West
Hampton, NH 03842-1720

Phone: 603-772-0775
www.unitil.com

Exhibit D

I attest that this project has been installed and is operating in conformance with any applicable building and electrical codes:

Owners Signature: _____ Date: 7-12-12

Exhibit E

Unitil
We deliver.
It's that simple.

5//16/2012

Mr. Jon Spencer

Revolution Energy, LLC
2 Washington St., Suite 206
Dover, NH 03820

Re: Exeter waste water treatment facility

Dear Jon:

This letter is to notify you that your application to install a renewable energy generator at the Exeter waste water treatment plant in Exeter, NH has been deemed complete and you are approved to install the generator.

Please note, this is **not** an approval to interconnect with the Unitil system.

I have enclosed the "Certificate of Completion" document which will need to be completed and signed by the local wiring inspector before you can interconnect to the Unitil system.

Once we have received the "Certificate of Completion", we will schedule an appointment to replace the existing meter with a "net metering" meter.

Please return the "Certificate of Completion" document to me (scanned, faxed or mailed in fine). The mailing address is 325 West Rd. in Portsmouth, NH 03801. My email is noonis@unitil.com and my fax is 603-294-5223.

If you have any questions, please feel free to call me at 603-294-5123.

Warmest Regards,

Tim Noonis
Sr. Bus. Dev. Executive

Corporate Office
6 Liberty Lane West
Hampton, NH 03842-1720
Phone: 603-772-0775
Fax: 603-773-6605
Email: corp@unitil.com